

## A B S T R A C T

A pulse pattern generator (11) has a pulse generating unit (12) and a lowpass filter (14), and the pulse generating unit (12) includes an amplitude-value setting unit (13, 13a). The pulse generating unit (12) generates a pulse signal formed in a step-like wave in which at least one of rise and fall of a signal is changed in a step-like manner. The lowpass filter (14) smoothes the pulse signal generated by the pulse generating unit (11), and outputs a smoothed pulse signal. The amplitude-value setting unit (13, 13a) adjusts an amplitude value of a step-like wave that forms the pulse signal in order to set a shape of an eye waveform based on a setting value when an eye pattern of the output from the lowpass filter (14) is formed. The pulse pattern generator (11) can output the pulse signal having a desired pulse pattern having the predetermined eye closure from the lowpass filter (14).